Big Splash Demos

Expected Outcomes

❚ Agree big splash demo is a Good Thing
❚ Identify
  ❚ costs/benefits
  ❚ demo scenario space(s)
  ❚ domain experts
  ❚ integration/interoperation mechanisms
  ❚ role paragraphs from each project
  ❚ roadmaps
  ❚ buyin motivations

Scenario Requirements

▋ Helps focus our work
▋ Meaningful to target audience
▋ "Real" data
▋ Access to domain experts to help focus
▋ Shows off ICV technologies well
▋ Sells a "5 years in the future" story
▋ Can start as smoke-and-mirrors with real demos on side
▋ **Must** act as attraction function for research, direction, integration

Some possible scenarios

❚ Virtual Situation Room (DARPA)

❚ C^5I^2

   ❚ sector air defense, JTF/ATD, JFACC, ...

❚ Telemedicine

   ❚ Remote ICU interactions

❚ Bob the Roving Journalist

❚ ... ?

❚ (should we do some scenario planning (eg GBN methodology))

What do we need to fit in

- Conferencing tools
- Locale management/view
- Intelligent agents
- Underlying infrastructure
- Data visualization
- ... ?

Interoperation Mechanisms

- Corba
- HTTP/Java
- some kind of bus ?!?
- Platform issues

Role Paragraphs

- Each project should be able to give a paragraph explaining
    - what part of the scenario they are biting off
    - what they do in the scenario
    - how they overcome some existing problem with current practice
- Each project should be able to give a set of in/out dependencies with other projects.

Roadmaps

▌ 1997
  ▌ identify scenarios, domain partners, get data
  ▌ build first version of scenario with stand-alone demos
▌ 1998
  ▌ evolve scenario, some demo integration
▌ 1999
  ▌ ???
▌ How far we go depends on cost/effort we can put in
▌ Who runs this, with what resources?

Costs

- Time taken up by demos
- Disruption of research trajectory
- Forced to integrate with other projects
- Additional travel, meetings, overhead
- Additional programming effort

Benefits

- Get to tell the best possible story for your work
- Get real synergy from other projects
- Help to sell relevance of work to funding organizations
- Real-life problems focus, stress-test and advance your work.
- Can then use other work in showing off yours outside this scenario too.
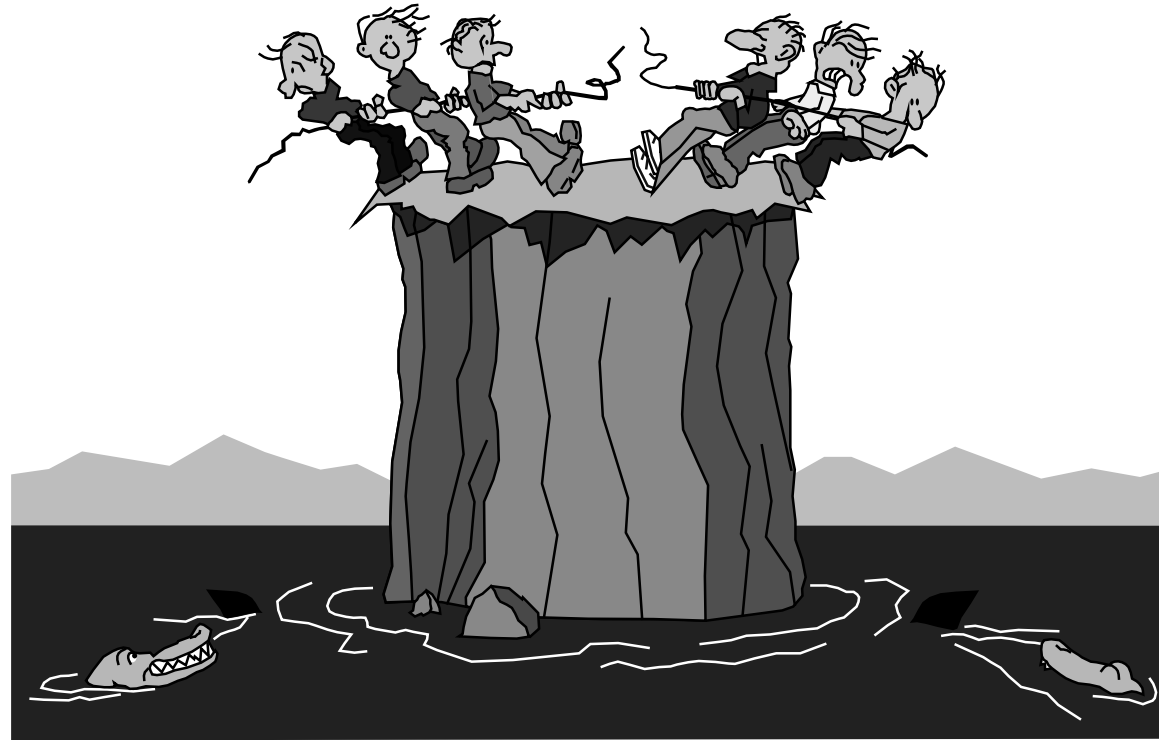
Major Political Benefits

- Visible distinction from industry
- Measurable improvements for DoD

Buyin Motivations

- For existing ICV projects
  - see buyins
- For others
  - other proposals, other ongoing DoD work
  - get to leverage off our work
  - visibility
  - sense that buyin advances own work

Plans for the afternoon

❚ Identification of scenarios, possible domain experts, etc

❚ Project roles/slots

❚ Integration/interoperation mechanisms

❚ Platform issues

❚ Roadmaps

❚ Management

❚ Motivations

...what we
accomplished...

Big Splash

▮ A good idea

▮ Better as a 'vision' than as a real integrator

▮ Act as focus

▮ Attempt to make demos sell within the picture

▮ Encourage (somehow foster?) integration

Possible Scenarios

▌ Virtual Situation Room

▌ JFACC

▌ ALP

▌ Disaster Relief

▌ CERT

Vision

▌ Agility

  ▌ among tasks

  ▌ easy setup

  ▌ information integration

  ▌ resource discovery

  ▌ reaction time decreases through better information access, communication

  ▌ dynamic team creation/evolution

Vision

❙ Presence
❙ Awareness
❙ View
  ❙ across data
  ❙ across locales
❙ Variability
  ❙ location
  ❙ bandwidth
  ❙ service

Vision

- Underlying
  - engineering
  - infrastructure
  - reflection
- Maintenance of context
- Scalability
  - size
  - bandwidth
  - distance

Vision

- Limited/no colocation

Big Issues

- Decide on scenario
- Evolve scenario/allow projects to determine roles
- Decide on roadmap
- Determine management structure
- Resolve resource issues
- Resolve integration issues